

Claims

1. A method for processing decomposed polyol, wherein decomposed and recovered polyol containing amines obtained by decomposition of 5 polyurethane resin is further subjected to processing to remove the amines and recover the decomposed and recovered polyol therefrom as reusable products.

2. The method for processing decomposed polyol according to Claim 1, wherein after an organic dicarboxylic acid or anhydride thereof is added to 10 the decomposed and recovered polyol containing the amines, the precipitate is removed, thereby subjecting the amines to processing.

3. The method for processing decomposed polyol according to Claim 2, wherein the organic dicarboxylic acid or anhydride thereof is oxalic acid.

4. The method for processing decomposed polyol according to Claim 2, 15 wherein the organic dicarboxylic acid or anhydride thereof is added to the decomposed and recovered polyol containing the amines in such a proportion that the organic dicarboxylic acid or anhydride thereof contains 0.3-1.05 equivalents of carboxyl group per equivalent of amino group of the amines.

20 5. The method for processing decomposed polyol according to Claim 1, wherein an isocyanate compound is added to the decomposed and recovered polyol containing the amines, thereby subjecting the amines to processing.

6. The method for processing decomposed polyol according to Claim 5, 25 wherein the isocyanate compound is added in such a proportion that the isocyanate compound contains 0.8-1.5 equivalents of isocyanate group per

equivalent of amino group of the amines in the decomposed and recovered polyol containing the amines.

7. The method for processing decomposed polyol according to Claim 1, wherein an oxide compound is added to the decomposed and recovered polyol containing the amines, thereby subjecting the amines to processing.

8. The method for processing decomposed polyol according to Claim 7, wherein the oxide compound is added to the decomposed and recovered polyol containing the amines in the presence of no catalyst.

9. The method for processing decomposed polyol according to Claim 7, wherein the oxide compound is added to the decomposed and recovered polyol containing the amines and heated at 80-140°C.

10. The method for processing decomposed polyol according to Claim 7, wherein the oxide compound is added in such a proportion that the oxide compound contains 1.5-3.0 equivalents of oxide group per equivalent of amino group of the amines in the decomposed and recovered polyol containing the amines.

11. The method for processing decomposed polyol according to Claim 1, wherein a urea is added to the decomposed and recovered polyol containing the amines, thereby subjecting the amines to processing.

20 12. The method for processing decomposed polyol according to Claim 11, wherein the urea is added in the proportion of 0.4-1.5 equivalents per equivalent of amino group of the amines in the decomposed and recovered polyol containing the amines.

25 13. The method for processing decomposed polyol according to any of Claims 1, 2, 5, 7 and 11, wherein the decomposed and recovered polyol

Count  
Sub  
A'

containing the amines is polyoxyalkylene polyol.

14. The method for processing decomposed polyol according to any of Claims 1, 2, 5, 7 and 11, wherein the content of the amines in the decomposed and recovered polyol containing the amines is 5 weight % or 5 less.

15. The method for processing decomposed polyol according to any of Claims 1, 2, 5, 7 and 11, which is applied to a recovering process of a decomposing and recovering process of polyurethane resin comprising a hydrolyzing process for hydrolyzing the polyurethane resin and the 10 recovering process for recovering the decomposed product produced by the hydrolysis.

16. A decomposed reusable polyol obtained by performing the process that after an organic dicarboxylic acid or anhydride thereof is added to decomposed and recovered polyol containing amines which is obtained by 15 decomposition of polyurethane resin, the precipitate is removed.

17. A decomposed reusable polyol obtained by performing the process that an isocyanate compound is added to decomposed and recovered polyol containing amines which is obtained by decomposition of polyurethane resin.

20 18. A decomposed reusable polyol obtained by performing the process that an oxide compound is added to decomposed and recovered polyol containing amines which is obtained by decomposition of polyurethane resin.

19. A decomposed reusable polyol obtained by performing the process that urea is added to decomposed and recovered polyol containing amines which 25 is obtained by decomposition of polyurethane resin.